

ABSTRACT OF THE DISCLOSURE

An optical fiber array is provided in which an optical fiber tip end is housed in a holding member 2. The holding member 2 consists of a substrate 3 and a cover plate 5. The substrate 3 forms a sectional V shaped housing groove (V groove 4) for housing the optical fiber 1 on the top face. The substrate 5 covers the top face of the substrate 3. Then, an adhesive is filled between the substrate 3 and the cover plate 5, and an optical fiber 1 is fixed in the housing groove. At this time, a distance Y between the substrate 3 and the cover plate 5 is $L/6 \leq Y \leq L$ relevant to a distance L from a contact point between the housed optical fiber 1 and the housing groove to the cover plate 5. In this manner, even under severer environment, a release of the holding member or the like hardly occurs, and good characteristics are maintained.

Additional advantages and modifications will readily occur to those skilled in the art. Therefore, the invention in its broader aspect is not limited to the specific details and representative embodiments shown and described herein. Accordingly, various modifications may be made without departing from the spirit or scope of the general inventive concept as defined by the appended claims and their equivalents.